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1 Analysis of techniques to improve protocol processing latency
David Mosberger, Larry L. Peterson, Patrick G. Bridges, Sean O'Malley
August 1996 **SIGCOMM '96**: Conference proceedings on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM ◈ Request Permissions

Full text available: 📄 Pdf (134.36 KB)　Additional Information: full citation, abstract, references, cited by, inde
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This paper describes several techniques designed to improve protocol latency, and reports on their effectiveness when measured on a modern RISC machine employing tl DEC Alpha processor. We found that the memory system---which has long been knowr to ...

Also published in:
October 1996 **SIGCOMM Computer Communication Review** Volume 26 Issue 4

2 The architecture and performance of security protocols in the ensemble group communication system: Using diamonds to guard the castle
August 2001 **Transactions on Information and System Security (TISSEC)** , Volume 4 Is 3
Publisher: ACM ◈ Request Permissions

Full text available: 📄 Pdf (418.73 KB)　Additional Information: full citation, abstract, references, cited by, inde
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Ensemble is a Group Communication System built at Cornell and the Hebrew universiti It allows processes to create *process groups* within which scalable reliable fifo-ordered multicast and point-to-point communication are supported. The system ...

Keywords: Group communication, security

3 Efficient user-space protocol implementations with QoS guarantees using real-tim upcalls
R. Gopalakrishnan, Gurudatta M. Parulkar
August 1998 **IEEE/ACM Transactions on Networking (TON)** , Volume 6 Issue 4
Publisher: IEEE Press

Full text available: Pdf (205.42 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 28, Citation Count: 5

Keywords: multimedia communication, networks, operating system kernals, processc scheduling, protocols, real-time systems, transport protocols

4 A general purpose proxy filtering mechanism applied to the mobile environment
Bruce Zenel
October 1999 **Wireless Networks** , Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: Pdf (385.25 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 33, Citation Count: 5

5 DPF: fast, flexible message demultiplexing using dynamic code generation
Dawson R. Engler, M. Frans Kaashoek
August 1996 **SIGCOMM '96:** Conference proceedings on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM Request Permissions
Full text available: Pdf (97.17 KB) Additional Information: full citation, abstract, references, cited by, inde terms

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Fast and flexible message demultiplexing are well-established goals in the networking community [1, 18, 22]. Currently, however, network architects have had to sacrifice o for the other. We present a new packet-filter system, DPF (Dynamic Packet Filters), ...

Also published in:
    October 1996 **SIGCOMM Computer Communication Review** Volume 26 Issue 4

6 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **CASCON '97:** Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research
Publisher: IBM Press
Full text available: Pdf (4.21 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 368, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations bas on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

7 Evaluating design alternatives for reliable communication on high-speed networks
Raoul A. F. Bhoedjang, Kees Verstoep, Tim Rühl, Henri E. Bal, Rutger F. H. Hofman
November 2000 **SIGPLAN Notices** , Volume 35 Issue 11
Publisher: ACM
Full text available: Pdf (1.25 MB) Additional Information: full citation, abstract, references, index terms

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We systematically evaluate the performance of five implementations of a single, user-level communication interface. Each implementation makes different architectural

assumptions about the reliability of the network hardware and the capabilities of the ..

8 An implementation and analysis of the virtual interface architecture
Philip Buonadonna, Andrew Geweke, David Culler
November 1998 **Supercomputing '98:** Proceedings of the 1998 ACM/IEEE conference on
Supercomputing (CDROM)
Publisher: IEEE Computer Society
Full text available: Html (60.53 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 20,   Citation Count: 16

Rapid developments in networking technology and a rise in clustered computing have
driven research studies in high performance communication architectures. In an effort
standardize the work in this area, industry leaders have developed the Virtual ...

Keywords: cluster, interconnect, network, system-area, user-level, virtual interface
architecture

9 A composable framework for secure multi-modal access to internet services from
Post-PC devices
Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A.
Brewer
October 2002 **Mobile Networks and Applications** , Volume 7 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: Pdf (340.33 KB)   Additional Information: full citation, abstract, references, cited by, inde
terms, review

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 47,   Citation Count: 2

The Post-PC revolution is bringing information access to a wide range of devices beyon
the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, a
voice based vehicle telematics. However, existing deployed Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding

10 Manageability, availability, and performance in porcupine: a highly scalable, cluste
based mail service
Yasushi Saito, Brian N. Bershad, Henry M. Levy
August 2000 **Transactions on Computer Systems (TOCS)** , Volume 18 Issue 3
Publisher: ACM Request Permissions
Full text available: Pdf (2.52 MB)   Additional Information: full citation, abstract, references, cited by, inde
terms

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 93,   Citation Count: 6

This paper describes the motivation, design and performance of Porcupine, a scalable
mail server. The goal of Porcupine is to provide a highly available and scalable electror
mail service using a large cluster of commodity PCs. We designed Porcupine ...

Keywords: cluster, distributed systems, email, group membership protocol, load
balancing, replication

11

Measuring the performance of communication middleware on high-speed network
Aniruddha Gokhale, Douglas C. Schmidt
August 1996 **SIGCOMM '96:** Conference proceedings on Applications, technologies,
architectures, and protocols for computer communications
Publisher: ACM ◈ Request Permissions

Full text available: 🖺 Pdf (270.13 KB)   Additional Information: full citation, abstract, references, cited by, inde
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Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 48,   Citation Count: 19

Conventional implementations of communication middleware (such as CORBA and
traditional RPC toolkits) incur considerable over-head when used for performance-
sensitive applications over high-speed networks. As gigabit networks become pervasiv
inefficient ...

Also published in:
October 1996 **SIGCOMM Computer Communication Review** Volume 26 Issue 4

12 Modeling and analysis of the Unix communication subsystems
Yi-Chun Chu, Toby J. Teorey
November 1996 **CASCON '96:** Proceedings of the 1996 conference of the Centre for
Advanced Studies on Collaborative research
Publisher: IBM Press
Full text available: 🖺 Pdf (88.17 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 14,   Citation Count: 0

The performance of host communication subsystems is an important research topic in
computer networks. Performance metrics such as throughput, delay, and packet loss a
important indices to observe the system behavior. Most research in this area is
conducted ...

13 Requirements for and evaluation of RMI protocols for scientific computing
Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley,
Dennis Gannon
November 2000 **Supercomputing '00:** Proceedings of the 2000 ACM/IEEE conference on
Supercomputing (CDROM)
Publisher: IEEE Computer Society
Full text available: 🖺 Pdf (306.83 KB)   Additional Information: full citation, abstract, references, cited by, inde
terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 27,   Citation Count: 14

Distributed software component architectures provide a promising approach to the
problem of building large scale, scientific Grid applications. Communication in these
component architectures is based on Remote Method Invocation (RMI) protocols that .

Keywords: Distributed computing, software component systems,
communicationprotocols, RMI,Java, SOAP

14 Migrating sockets—end system support for networking with quality of service
guarantees
David K. Y. Yau, Simon S. Lam
December 1998 **IEEE/ACM Transactions on Networking (TON)** , Volume 6 Issue 6

Publisher: IEEE Press

Full text available: Pdf (369.10 KB) Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 38, Citation Count: 1

Keywords: CPU scheduling, bandwidth scheduling, packet demultiplexing, quality of service guarantees, user level protocol

15 Separating access control policy, enforcement, and functionality in extensible systems

Robert Grimm, Brian N. Bershad

February 2001 **Transactions on Computer Systems (TOCS)** , Volume 19 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (164.03 KB) Additional Information: full citation, abstract, references, cited by, inde terms, review

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 125, Citation Count: 3

Extensible systems, such as Java or the SPIN extensible operating system, allow for ur of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to ...

Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

16 Xunet 2: lessons from an early wide-area ATM testbed

Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert (Restrick, III

February 1997 **IEEE/ ACM Transactions on Networking (TON)** , Volume 5 Issue 1

Publisher: IEEE Press

Full text available: Pdf (231.69 KB) Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 23, Citation Count: 0

Keywords: asynchronous transfer mode, available bit rate, constant bit rate, variable rate

17 Interposed request routing for scalable network storage

February 2002 **Transactions on Computer Systems (TOCS)** , Volume 20 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (363.12 KB) Additional Information: full citation, abstract, references, cited by, inde terms, review

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 66, Citation Count: 5

This paper explores interposed request routing in Slice, a new storage system architecture for high-speed networks incorporating network-attached block storage. Sl interposes a request switching filter---called a μ*proxy*---along each client's ...

Keywords: Content switch, file server, network file system, network storage, request redirection, service virtualization

18 The transport layer: tutorial and survey

Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **Computing Surveys (CSUR)** , Volume 31 Issue 4
Publisher: ACM ◈ Request Permissions
Full text available: 📄 Pdf (261.78 KB)   Additional Information: full citation, abstract, references, cited by, inde
terms

Bibliometrics: Downloads (6 Weeks): 45,   Downloads (12 Months): 348,   Citation Count: 3

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and survey of transport layer services and protocols. The transport layer protocol ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

19 An efficient implementation of Java's remote method invocation
Jason Maassen, Rob van Nieuwpoort, Ronald Veldema, Henri E. Bal, Aske Plaat
August 1999 **PPoPP '99:** Proceedings of the seventh ACM SIGPLAN symposium on Principl and practice of parallel programming
Publisher: ACM ◈ Request Permissions
Full text available: 📄 Pdf (1.20 MB)   Additional Information: full citation, abstract, references, cited by, inde
terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 59,   Citation Count: 25

Java offers interesting opportunities for parallel computing. In particular, Java Remote Method Invocation provides an unusually flexible kind of Remote Procedure Call. Unlike RPC, RMI supports polymorphism, which requires the system to be able to download ..

Also published in:
August 1999 **SIGPLAN Notices** Volume 34 Issue 8

20 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment
Barron C. Housel, George Samaras, David B. Lindquist
December 1998 **Mobile Networks and Applications** , Volume 3 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 Pdf (338.35 KB)   Additional Information: full citation, abstract, references, cited by, inde
terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 28,   Citation Count: 10

This paper describes an application model and software technology that makes it possi to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal ...

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